

INFORMATION DISCLOSURE CITATION

PTO-1449

 ATTY. DOCKET NO.
A-68364-1/RMS/DCF

 SERIAL NO.
09/642,068

 APPLICANT
STUELPNAGEL et al.

 FILING DATE
August 18, 2000

 GROUP
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U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS		PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
TS ✓	1	4,822,746	4/1989	Walt			
✓	2	5,002,867	3/1991	Macevicz			
✓	3	5,114,864	5/1992	Walt			
✓	4	5,105,305	4/1992	Betzig et al.			
✓	5	5,143,853	9/1992	Walt			
✓	6	5,028,545	7/1991	Soini			
✓	7	5,244,636	9/1993	Walt et al.			
✓	8	5,244,813	9/1993	Walt et al.			
✓	9	5,250,264	10/1993	Walt et al.			
✓	10	5,252,494	10/1993	Walt			
✓	11	5,254,477	10/1993	Walt			
✓	12	5,298,741	3/1994	Walt et al.			
✓	13	5,320,814	6/1994	Walt et al.			
✓	14	5,496,997	3/1996	Pope			
✓	15	5,512,490	4/1996	Walt et al.			
✓	16	5,573,909	11/1996	Singer et al.			
✓	17	5,633,972	5/1997	Walt et al.			
✓	18	4,499,052	2/1985	Fulwyler			
✓	19	5,690,894	11/1997	Pinkel et al.			
✓	20	5,194,300	3/1993	Cheung			
TS ✓	21	5,132,242	7/1992	Cheung			

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TS ✓	37	5,494,798	2/1996	Gerdt et al.			
✓	38	5,565,324	10/1996	Still et al.			
✓	39	5,516,635	5/1996	Ekins et al.			
✓	40	5,900,481	5/1999	Lough et al.			
✓	41	5,888,723	3/1999	Sutton et al.			
✓	42	5,380,489	1/1995	Sutton et al.			
✓	43	5,840,256	11/1998	Demers et al.			
TS ✓	44	5,854,684	12/1998	Stabile et al.			

FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS		PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							Yes	No
TS ✓	45	0 478 319	4/1992	EP				
✓	46	0 269 764	6/1988	EP				
✓	47	93/02360	2/1993	PCT				
✓	48	89/11101	11/1989	PCT				
✓	49	97/14028	4/1997	PCT				
✓	50	0 723 146	7/1996	EP				
✓	51	98/40726	9/1998	PCT				
✓	52	0 392 546	10/1990	EP				
✓	53	98/53093	11/1998	PCT				
✓	54	97/40385	10/1997	PCT				
✓	55	98/53300	11/1998	PCT				
✓	56	96/03212	2/1996	PCT				
TS ✓	57	99/60170	11/1999	PCT				

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							Yes	No
TS ✓	58	97/14928	4/1997	PCT				
I ✓	59	98/50782	11/1998	PCT				
I ✓	60	99/18434	4/1999	PCT				
TS ✓	61	99/67414	12/1999	PCT				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

TS ✓ ✓	62	Ferguson et al., "A Fiber-Optic DNA Biosensor Microarray for the Analysis of Gene Expression," Nature Biotechnology, 14:1681-1684 (1996).
I ✓ ✓	63	Healey et al., "Improved Fiber-Optic Chemical Sensor for Penicillin," Anal. Chem. 67(24):4471-4476 (1995).
I ✓ ✓	64	Healey et al., "Development of a Penicillin Biosensor Using a Single Optical Imaging Fiber," SPIE Proc. 2388:568-573 (1995).
I ✓ ✓	65	Michael et al., "Making Sensors out of Disarray: Optical Sensor Microarrays," Proc. SPIE, 3270: 34-41 (1998).
I ✓ ✓	66	Michael et al., "Randomly Ordered Addressable High-Density Optical Sensor Arrays," Anal. Chem. 70(7): 1242-1248 (April 1998).
I ✓ ✓	67	Michael et al., "Fabrication of Micro- and Nanostructures Using Optical Imaging Fibers and there Use as Chemical Sensors," Proc. 3rd Intl. Symp., Microstructures and Microfabricated Systems, ed. P.J. Hesketh, et al., v. 97-5, Electrochem. Soc., 152-157 (Aug. 1997).
I ✓ ✓	68	Pantano et al., "Ordered Nanowell Arrays," Chem. Mater., 8(12): 2832-2835 (1996).
TS ✓ ✓	69	Walt, "Fiber-Optic Sensors for Continuous Clinical Monitoring," Proc. IEEE, 80(6): 903-911 (1992).

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Teresa Stuebelia

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 GROUP
~~4643~~ 1656

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

TS ✓ ✓	70	Anonymous, "Fluorescent Microspheres," Tech. Note 19, Bangs Laboratories, (Fishers, IN) February 1997.
✓ ✓	71	Anonymous, "Microsphere Selection Guide," Bangs Laboratories, (Fisher, IN) September 1998.
✓ ✓	72	Bangs, L.B., "Immunological Applications of Microspheres," The Latex Course, Bangs Laboratories (Carmel, IN) April 1996.
✓ ✓	73	Peterson, J. et al., "Fiber Optic pH Probe for Physiological Use," Anal. Chem., 52:864-869 (1980).
✓ ✓	74	Pope, E. "Fiber Optic Chemical Microsensors Employing Optically Active Silica Microspheres," SPIE, 2388:245-256 (1995).
✓ ✓	75	Strachan et al., "A Rapid General Method for the Identification of PCR Products Using a Fibre-Optic Biosensor and its Application to the Detection of Listeria," Letters in Applied Microbiology, 21:5-9 (1995).
✓ ✓	76	Abel et al., "Fiber-Optic Evanescent Wave Biosensor for the Detection of Oligonucleotides," Anal. Chem. 68:2905-2912 (1996).
✓ ✓	77	Piunno et al., "Fiber-Optic DNA Sensor for Fluorometric Nucleic Acid Determination," Anal. Chem., 67:2635-2643 (1995).
✓ ✓	78	Drmanac, R. et al., "Sequencing by Oligonucleotide Hybridization: A Promising Framework in Decoding of the Genome Program," The First International Conference on Electrophoresis, Supercomputing and the Human Genome, Proceeding of the April 10-13, 1990 Conference at Florida State University. Ed. C. Cantor and H. Lim.
✓ ✓	79	Drmanac, R. et al., "Prospects for a Miniaturized, Simplified and Frugal Human Genome Project," Scientia Yugoslavica, 16(1-2):97-107 (1990).
✓ ✓	80	Drmanac, R. et al., "Sequencing by Hybridization (SBH) with Oligonucleotide Probes as an Integral Approach for the Analysis of Complex Genomes," International Journal of Genome Research, 1(1):59-79 (1992).
✓ ✓	81	Drmanac, R. et al., "Sequencing by Hybridization," Automated DNA Sequencing and Analysis, ed. M. Adams, C. Fields and J. Venter. (1994).
✓	82	Barnard et al., "A Fibre-Optic Chemical Sensor with Discrete Sensing Sites," Nature, 353:338-340 (September 1991).
✓ ✓	83	Fuh et al., "Single Fibre Optic Fluorescence pH Probe," Analyst, 112:1159-1163 (1987).
✓ ✓	84	Magnani et al., "In-Vivo Biomedical Monitoring by Fiber-Optic Systems," Journal of Lightwave Technology, 13(7):1396-1406 (1995).
✓ ✓	85	Healey et al., "Fiberoptic DNA Sensor Array Capable of Detecting Point Mutations," Analytical Biochemistry, 251:270-279 (1997).
✓ ✓	86	Hirschfeld et al., "Laser-Fiber-Optic 'Optrode' for Real Time In Vivo Blood Carbon Dioxide Level Monitoring," Journal of Lightwave Technology, LT-5(7):1027-1033 (1987).
✓ ✓	87	Peterson et al., "Fiber-Optic Sensors for Biomedical Applications," Science, 13:123-127 (1984).
✓ ✓	88	Czarnik, "Illuminating the SNP genomic code," Modern Drug Discovery, 1(2):49-55 (1998).
TS ✓ ✓	89	Walt, "Fiber Optic Imaging Sensors", Acc. Chem. Res. 31(5):267-278 (1998).

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